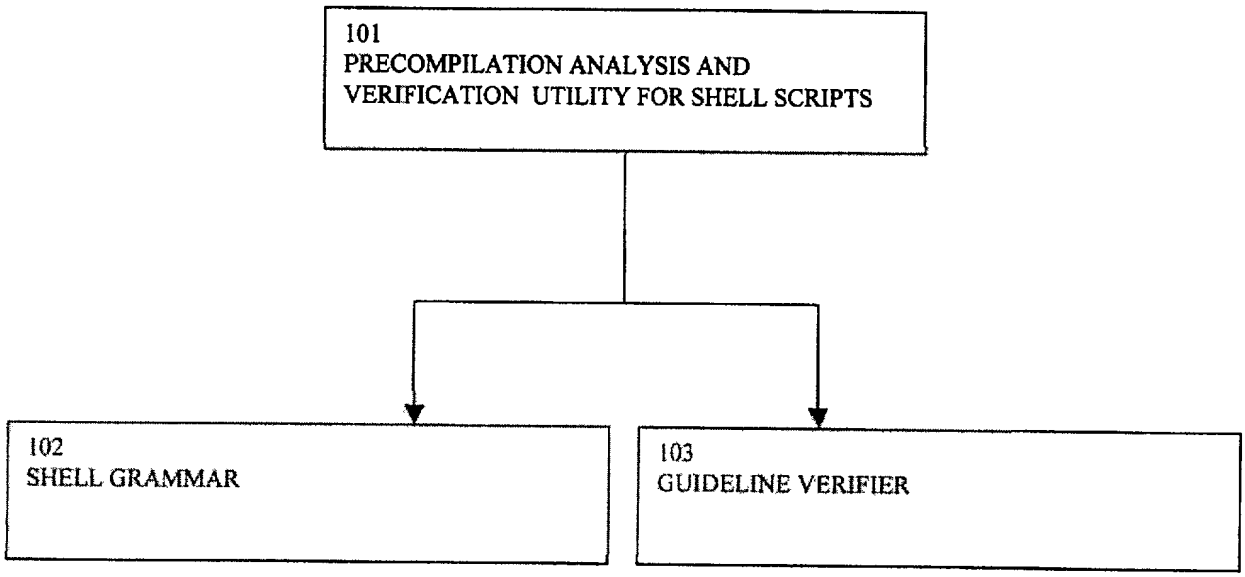
101
PRECOMPILATION ANALYSIS AND
VERIFICATION UTILITY FOR SHELL SCRIPTS
102
SHELL GRAMMAR
103
GUIDELINE VERIFIER

FIGURE 1

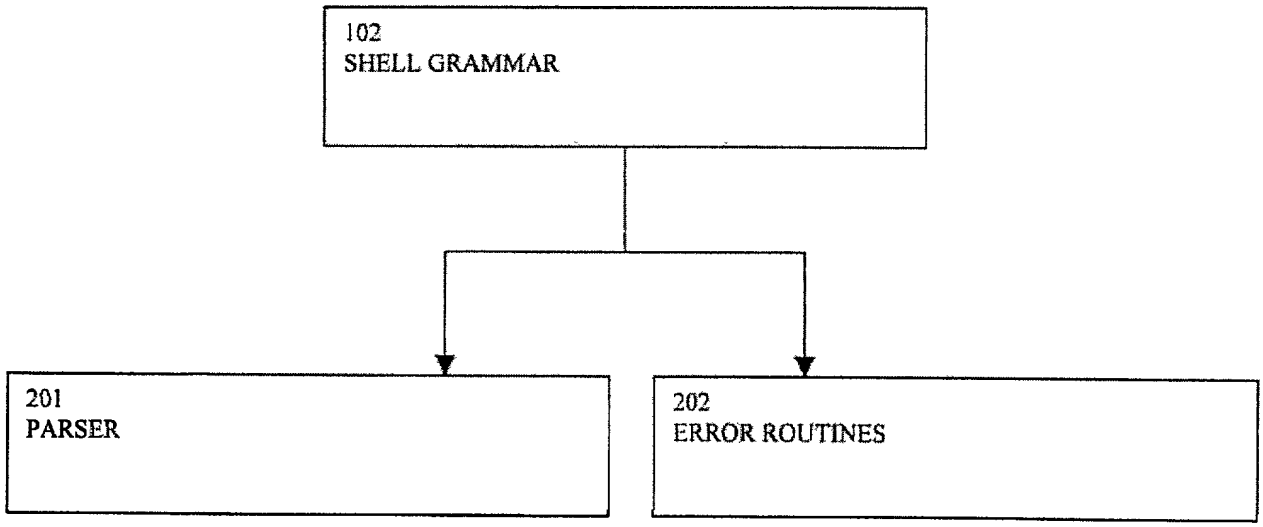

FIGURE 2

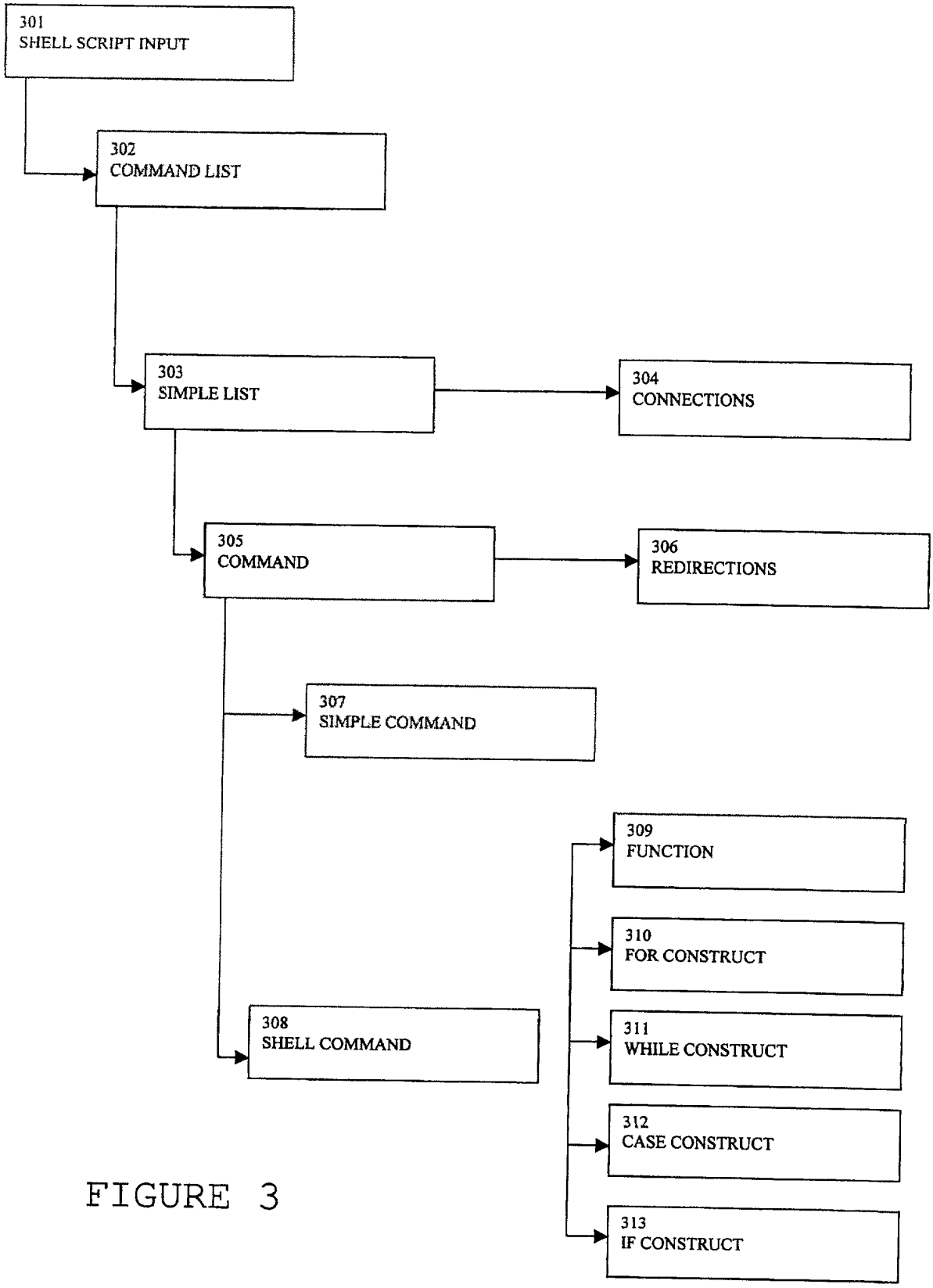
301
SHELL SCRIPT INPUT
302
COMMAND LIST
303
SIMPLE LIST
304
CONNECTIONS
305
COMMAND
306
REDIRECTIONS
307
SIMPLE COMMAND
308
SHELL COMMAND
309
FUNCTION
310
FOR CONSTRUCT
311
WHILE CONSTRUCT
312
CASE CONSTRUCT
313
IF CONSTRUCT

FIGURE 3

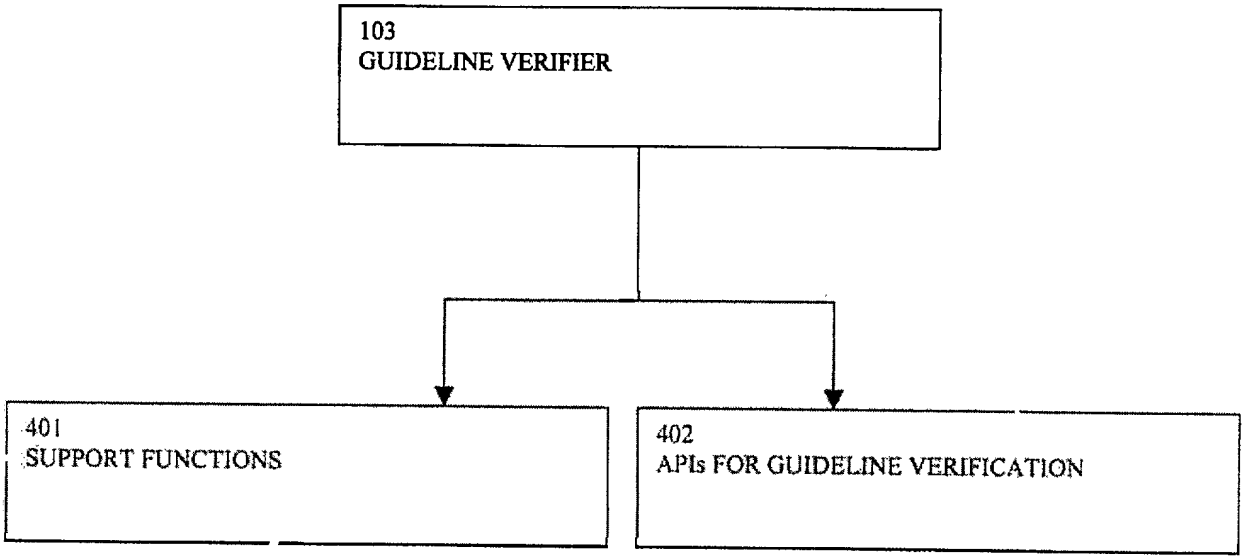
103
GUIDELINE VERIFIER
401
SUPPORT FUNCTIONS
402
APIs FOR GUIDELINE VERIFICATION

FIGURE 4

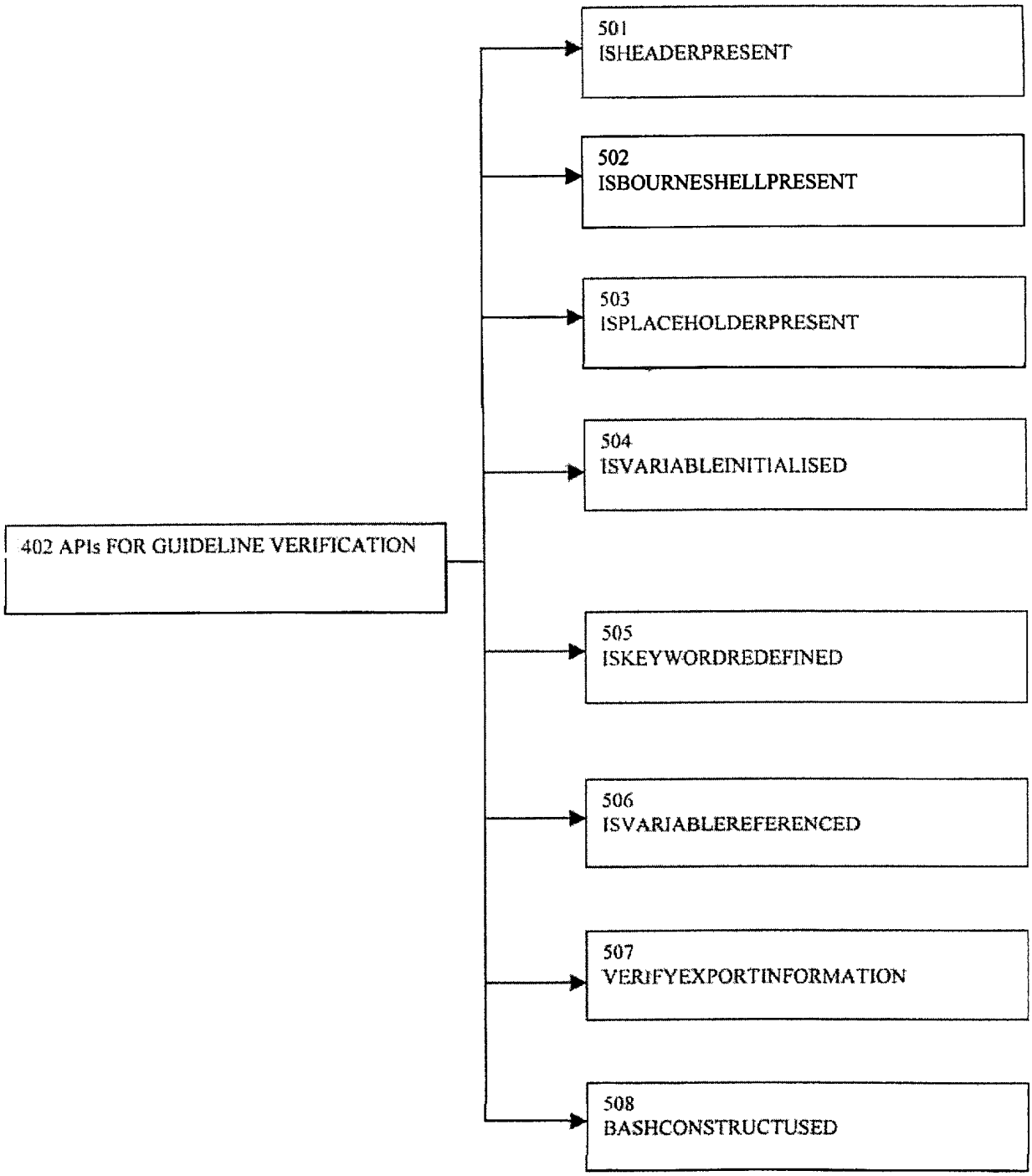
402 APIs FOR GUIDELINE VERIFICATION
501
ISHEADERPRESENT
502
ISBOURNESHELLPRESENT
503
ISPLACEHOLDERPRESENT
504
ISVARIABLEINITIALISED
505
ISKEYWORDREDEFINED
506
ISVARIABLEREFERENCED
507
VERIFYEXPORTINFORMATION
508
BASHCONSTRUCTUSED

FIGURE 5

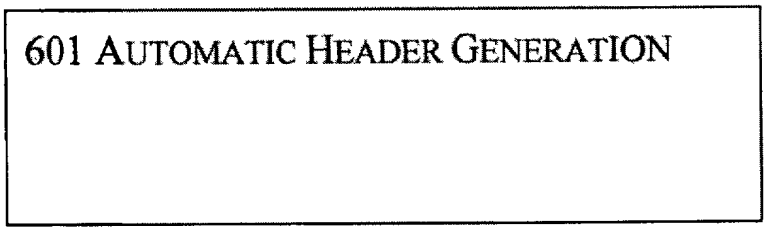

FIGURE 6

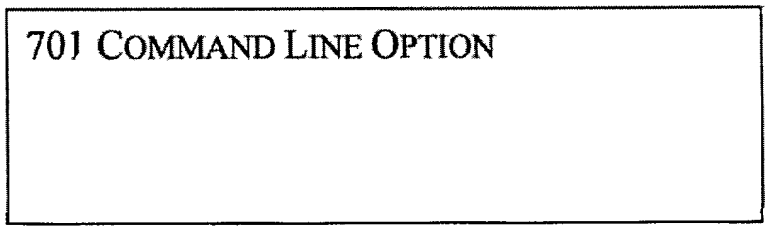

FIGURE 7